5. (Amended) A system according to claim 4, wherein the mixed oxide is selected from the group consisting of Ba-Cu-O and MnO_2-$BaCuO_2$.

6. (Amended) A system according to claim 1, wherein the catalyst system comprises at least one of vanadia/titania and one or more platinum group metal.

7. (Amended) A system according to claim 1, wherein the injection means is arranged to inject the reactant upstream of the filter.

9. (Amended) A system according to claim 1, wherein the injection means is arranged to inject the reactant downstream of the filter.

10. (Amended) A system according to claim 1, wherein the filter is catalysed.

11. (Amended) A system according to claim 1, wherein the injection means is for injecting ammonia, hydrazine, urea or aqueous urea solution.

12. (Amended) A system according to claim 1, further including sensors, indicators, computers and actuators, effective to maintain operation within desired conditions.

14. (Amended) A diesel engine including a system according to claim 1.

15. (Amended) An engine according to claim 14, which is a turbo-charged direct injection engine.

16. (Amended) A process for treating combustion exhaust gas containing CO, hydrocarbons (HC), NO, O_2, soot and non-reactive gases, comprising the steps of: (i) catalysing oxidation of NO to NO_2; (ii) collecting soot on a filter; (iii) combusting the collected soot by reaction with NO_2; (iv) removing NOx from the product of step (iii) by contacting a regenerable NOx absorbent with gas containing NOx; (v) regenerating the absorbent intermittently by injecting a NOx-specific reactant upstream of the absorbent; and (vi) at least during step (v), contacting a catalyst system effective to promote reactions of HC and CO with O_2 to H_2O and CO_2 and to react NOx to N_2 with the gas product of step (v).

18. (Amended) A process according to claim 16, wherein the NOx-specific reactant is ammonia or hydrazine and is injected as such or as a precursor compound decomposable thereto *in situ*.

19. (Amended) A process according to claim 18, wherein the precursor is urea or aqueous urea solution.

20. (Amended) A process according to claim 16, wherein the exhaust gas is the product of combustion of fuel containing less than 50 ppm w/w of sulphur.

21. (Amended) A process according to claim 16, operated in compliance with the European Stage IV emission legislation.

Please add the following new claims:

~~22~~ 23. (Newly Added) A process according to claim 16, wherein step (iii) comprises combusting the collected soot by reaction with NO_2 and further with O_2 left over after step (i).

~~23~~ 24. (Newly Added) A system according to claim 5, wherein the mixed oxide further comprises at least one of CeO_2, Y-Ba-Cu-O and Y-Sr-Co-O.

Respectfully submitted,

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Kathleen Libby